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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,481	08/28/2003	Robert B. Lowrance	007024 6152	
7590 07/05/2006			EXAMINER	
PATENT COUNSEL			LOWE, MICHAEL S	
APPLIED MATERIALS, INC. Legal Affairs Department P.O.BOX 450A Santa Clara, CA 95052			ART UNIT	PAPER NUMBER
			3652	
			DATE MAILED: 07/05/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/650,481	LOWRANCE ET AL.			
		Examiner	Art Unit			
		M. Scott Lowe	3652			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication; period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONED	N. hely filed the mailing date of this communication.			
Status						
• —	Responsive to communication(s) filed on 21 March 2006.					
<i>,</i> —	This action is FINAL. 2b) ☐ This action is non-final.					
3) 🗌	- - · · · · · · · · · · · · · · · · · ·					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>8-17</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>8-17</u> is/are rejected. Claim(s) <u>8 and 13</u> is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.				
Applicati	on Papers	•				
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>28 August 2003</u> is/are: Applicant may not request that any objection to the GReplacement drawing sheet(s) including the correction to the Orthodoreal Contraction of the Orthodoreal Contraction is objected to by the Example 1.	a)⊠ accepted or b)□ objected t drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority u	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
	e of References Cited (PTO-892)	4) 🔲 Interview Summary				
3) Inform	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-152)			

Claim Objections

Claims 8 & 13 are objected to because of the following informalities:

In line 5, "about a horizontal axis, rotating the arm" is confusing. It would be clearer as "rotating the arm about a horizontal axis".

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 8,11,13,16, are rejected under 35 U.S.C. 102(b) as being anticipated by Rochet (US 4,805,759)

Re claims 8,13, Rochet teaches a method of unloading and loading a substrate carrier 36 from and to a moving conveyor 14, comprising:

transporting a substrate carrier 36 via a conveyor 14 that moves past an arm (not numbered, on transfer stations OT1,OT2,etc.) having an end effector 44 coupled to the arm;

about a horizontal axis, rotating the arm (55, figure 3);

substantially matching a velocity of the end effector 44 to a velocity at which the substrate carrier 36 is transported by the moving conveyor 14; contacting the substrate carrier 36 with the end effector 44; and

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lifting the substrate carrier 36 from the conveyor 14.

Re claims 11,16, Rochet teaches the substrate carrier 36 in a vertical orientation (vertical orientation can be read as many things as currently worded) during the transporting step.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9,10,14,15, are rejected under 35 U.S.C. 103(a) as being unpatentable over Rochet (US 4,805,759) in view of Sugita (US 5,332,013).

Re claims 9,14, Rochet is silent as to whether the end effector has a fixed orientation. Sugita teaches use of automated transfer stations with arms 31 that rotate about a horizontal axis and have an end effector that keeps a fixed orientation. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rochet to have automated transfer stations (with arms 31 that rotate about a horizontal axis) of Sugita in order to keep a fixed end effector orientation to keep the substrates from moving inside the carrier, and also to automate the transfer stations and allow the them to be more mobile and flexible.

Re claims 10,15, Rochet teaches a cup-shaped end effector 44 oriented horizontally but is silent on the end effector oriented such that an open side of the cup-shaped end

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effector is oriented upwardly. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified Rochet to have an upwardly oriented end effector in order to be able to grip carriers that require upwardly oriented end effector in order to be griped.

Claims 12,17, are rejected under 35 U.S.C. 103(a) as being unpatentable over Rochet (US 4,805,759) in view of Gramarossa (US 6,524,463).

Re claims 12,17, Rochet is silent on the number of substrates in the carrier.

However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have substituted a single substrate carrier for each carrier in Rochet in view of the teaching of Gramarossa in order to be capable of integrating with known single substrate carrier transport systems.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bonora (US 5,570,990) teaches a similar method and device.

Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection. Applicant's arguments do not apply to the current use of the Sugita reference.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. Scott Lowe whose telephone number is (571) 272-6929. The examiner can normally be reached on 6:30am-4:30pm M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis can be reached on (571) 272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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